

SYSTEMS AND METHODS FOR THE DEPOSITION AND CURING
OF COATING COMPOSITIONS

ABSTRACT OF THE DISCLOSURE

[0061] Systems and methods for creating a combinatorial coating library including a coating system operatively coupled to at least one of a plurality of materials suitable for forming at least one coating layer on a surface of one or more substrates and a curing system operative to apply at least one of a plurality of curing environments to each of a plurality of regions associated with the at least one coating layer. The curing system including a scanning mirror system having a mirrored surface positionable relative to an incoming radiation beam, wherein the mirrored surface is positionable to direct the incoming radiation beam to a selected one of the plurality of regions associated with the coating layer. The combinatorial coating library comprising a predetermined combination of at least one of the plurality of materials and at least one of the plurality of curing environments associated with each of the plurality of regions.